

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-17 (Canceled)

18. (New) A flame-retardant system for polymers, comprising a phosphorus-based compound being esters and salts of phosphoric, phosphinic and phosphonic acids and at least one stabilizing compound which is a scavenger of acid functional group and melamine condensation products or derivatives, with a ratio by weight of the stabilizing compound to the phosphorus-comprising compound being between 30% and 80%.

19. (New) The flame-retardant system according to Claim 18, wherein the phosphorus-comprising compound is bis[(5-ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphorinan-5-yl)methyl] ester of methylphosphonic acid, alone or as a mixture with the methyl and (5-ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphorinan-5-yl)methyl ester of methylphosphonic acid, resorcinol bis(diphenyl phosphate), bisphenol A bis(diphenyl phosphate), polyphosphate esters, diethylphosphinic acid, ethylmethylphosphinic acid, methyl(n-propyl)phosphinic acid, or their mixtures, esters and salts.

20. (New) The flame-retardant system according to Claim 19, wherein the stabilizing compound is an alkali metal metal carbonate, alkaline earth metal carbonate, hydrotalcite or aluminosilicate.

21. (New) The flame-retardant system according to Claim 18, wherein the stabilizing compound is a melamine condensation product.
22. (New) The flame-retardant system according to Claim 21, wherein the melamine condensation product is melem, melam, melon, melamine cyanurate, phosphate or polyphosphate.
23. (New) The flame-retardant system according to Claim 18, wherein the phosphorus-comprising compound is impregnated on a porous solid support.
24. (New) The flame-retardant system according to Claim 23, wherein the porous solid support is silica, alumina, silica/alumina, sodium silicoaluminate, calcium silicate, magnesium silicate, zirconia, magnesium oxide, calcium oxide, cerium oxide or titanium oxide.
25. (New) The flame-retardant system according to Claim 24 wherein the porous solid support is a silica.
- 26 (New) A flame-retarded polymer-based composition, comprising a flame-retardant system comprising a phosphorus-based compound which is an ester or salt of phosphonic, phosphinic and phosphoric acids and at least one stabilizing compound which is a scavenger of acid functional group and melamine condensation derivatives, with a ratio by weight of the stabilizing compound to the phosphorus-comprising compound being between 30% and 80%.

27. (New) The composition according to Claim 26, wherein the phosphorus-comprising compound has a concentration by weight, expressed as weight of phosphorus, in the composition, of between 5% and 15% with respect to the total weight of the composition.
28. (New) The composition according to Claim 26, wherein the polymer is a thermosetting polymers, thermoplastic polymer or elastomer.
29. (New) The composition according to Claim 28, wherein the thermoplastic polymer is a polyolefin, polyamide, polyester, polycarbonate, styrene polymer, polyurethane, orpolyepoxide.
30. (New) The composition according to Claim 29, wherein the thermoplastic polymer is polyamide 6/11, 4/6, 66/6, 6/66, 11, 12, 4, 6, 6.6, 6;9, 6;19, 6.12, 6.18, 6.36; or a branched polyamide.
31. (New) The composition according to Claim 29, wherein the thermoplastic polymer is poly(ethylene terephthalate), poly(propylene terephthalate), poly(butylene terephthalate), orpoly(1,4-dimethylcyclohexane terephthalate).
32. (New) The composition according to Claim 26, further comprising bulking fillers, reinforcing fillers, additives for heat or light stabilization, moulding aids or lubricants.
33. (New) The composition according to Claim 26, wherein the phosphorus-comprising compound is impregnated on a porous solid support.
34. (New) The composition according to Claim 33, wherein the porous solid support is silica, alumina, silica/alumina, sodium silicoaluminate, calcium silicate, magnesium silicate, zirconia, magnesium oxide, calcium oxide, cerium oxide or titanium oxide.

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35. (New) The composition according to Claim 34, wherein the porous solid support is a silica.